ABSTRACT
        This guide offers guidance to college instructors about
working with students who have communication-related disabilities including
speech, language, hearing, emotional, or medical disorders. It offers some
general accommodation strategies including a statement in the syllabus
encouraging students to discuss any special needs with you, ask the student
to share successful strategies with you, select course materials and media
early to allow time for procuring alternate formats, and use multiple or
alternative methods for evaluating student achievement. Specific
accommodations and/or issues are then described. These include sign language
and oral interpreters; captioning media; real-time captioning; amplification,
headphones, and assistive listening devices; notetakers and copying notes;
visual aids, visual reinforcements, and visual warning systems; written
assignments, written exams, and alternative lab work; electronic mail and
written communication; communication assistance, peer support, and extended
time; and seating, pacing, and alternative arrangements. A description of the
University of Washington's Project DO-IT completes the guide. (DB)

Effective Communication: Faculty and Students with Disabilities

University of Washington

2002

Effective Communication: Faculty and Students with Disabilities

Communication between faculty and students with disabilities can directly affect their level of success. If interactions are ineffective, student performance is hampered. There is still a great deal of stigma associated with speech disabilities and a misconception that intelligence is somehow correlated with clarity of speech.

Some students might hear and understand everything that's happening in your classroom, but their contribution is dramatically limited because they cannot participate through speech. For example, some students who have Cerebral Palsy or certain types of brain injuries, may experience difficulties in making their ideas clear through speech. Sometimes only close friends and family members can understand their speech. People who have speech impairments may choose not to use their own voices if they expect they will not be understood. Some individuals with speech impairments use computer-based communication systems that allow them to communicate with a synthesized voice. Oral exams, oral presentations, and group work may present difficulties if students are not accommodated properly.

Although most of the origins of communication-related disabilities are speech, language, or hearing impairments, there are other reasons a student might have difficulty communicating. A student with significant phobia or anxiety disorder may take an extended amount of time to begin speaking in public. The same student might also have a great deal of difficulty answering a question posed to him in a small group situation. Some students who have chronic medical conditions such as asthma or cancer may simply need extra time to express themselves verbally. Side effects of medication or difficulties breathing can impact spontaneity in speaking. Even students without diagnosed disabilities may be shy or unwilling to participate verbally in class even if they are paying attention and following all verbally-presented information. Accommodation strategies may be useful for students with different abilities and disabilities. Most accommo-

dation strategies can be integrated into how you design your courses but some are tailored to specifically meet an individual's needs.

Accommodation Strategies

It is important for instructors to be aware that all forms of communication in class may present minor or major barriers to students with a range of disabilities. Applying these strategies helps all students learn because it reinforces knowledge and skills using different methods. This section includes suggestions that facilitate general classroom communication.

Below are some general strategies that may minimize the effect of a communication-related disability of a student in your class. They are followed by details regarding specific accommodations.

- Add a statement to your syllabus inviting students who have disabilities to discuss their needs and accommodation strategies with you. Read the statement out loud in case students have problems with print format. Repeat the statement during the first two weeks.

- Ask a student who has identified himself as having a specific disability to share with you what strategies have worked and what accommodations will be useful to him in your class. Use the disability support services available on campus.

- If you plan to lecture or use primarily auditory delivery, ensure you use adequate visual support such as overhead transparencies or a computer-based projection system. Provide printed handouts with key content.

- Select course materials and media early so that if captioning or alternate formats are required, they can be procured in a timely manner.

- If your classroom activities involve verbal participation, ensure alternatives or support for students who have difficulty speaking. Examples are provided in the subsections below.

- Use multiple or alternative methods for evaluating student achievement. Allow for different ways of testing or assignment completion (written, projects, demonstrations, in-class participation).

Sign Language and Oral Interpreters

One of the most visible types of accommodations for a student with communication-related disability is the presence of an interpreter at the front of the classroom. A professional interpreter is trained to translate spoken English (and other languages) into sign language. If the student cannot speak, the interpreter will also reverse interpret or voice what the student signs. If the student does not know sign language but needs to be able to lipread consistently, an oral interpreter is used. Oral interpreters are trained professionals who understand which words are visible on the lips and can make spoken language more accessible to a lipreading deaf student. Sometimes oral interpreters also fingerspell or point to help the student follow conversations. Sign language interpreters often work in pairs so that they can take turns to prevent physical and mental fatigue. Interpreters are not allowed to add or change anything they interpret and sometimes must ask the instructor for clarification or repetition. Using unfamiliar jargon may often cause an interpreter to ask for information that the student (who is more familiar with the content) might not have asked. Be aware of the difference between the interpreter asking and the student asking for information. Normal pacing of presented materials can be challenging when passages are read out loud, the speaker speaks very quickly, or many technical terms are used. Discuss with the disabled student services office options for training and orientation using interpreters. It is also recommended to take time before the presentation to discuss issues with the interpreters themselves.

Captioning Media

When showing films or videos, it is important to use a captioned version that has subtitles which display all information presented verbally. If you are not able to get a captioned version of the media, it might be necessary to provide a transcript or to use a sign language interpreter during the presentation. Students who are deaf, hard of hearing, or who have difficulty processing spoken language might need extra time to process this information because they cannot watch the video/film and also read the text or follow the interpretation at the same time. Captioning has the advantage of presenting both video and text together. Students who are learning English because they have another first language also benefit from seeing the English subtitles while hearing the audio.

Real-time Captioning

Court reporting techniques have been adapted to classroom use so that people who rely on text to communicate have instant access to the spoken word. A trained professional sits with equipment to enter what is spoken and translates it to a computer monitor for the student. Sometimes these systems also provide a notetaking service by giving the student a diskette or electronic version of the presentation or group discussion. These systems are particularly useful for students who do not follow aurally but for whom reading printed English is a strength.

Amplification, Headphones, and Assistive Listening Devices

In large lecture halls a microphone and normal amplification might assist students who need louder sound but do not use personal listening devices. When any of these methods are used, it is important that the person with the hand-held or lapel microphone repeat or rephrase questions posed and comments made by people who are not using the microphone. If a student is using any type of headphone or hearing aid that is receiving sound from the microphone none of the room noise, including comments, will be accessible. People who have difficulty processing sounds, because of hearing loss or learning disabilities, may benefit from using headphones which

directly process sound to the ears and block out environmental noise.

People who already have hearing aids may benefit from assistive listening devices such as FM systems, Infrared transmissions, and loops. These devices are designed to bring sound to the hearing aid from a transmitted location directly. Instructors can help these students by repeating questions or comments from the audience to ensure full access to the discussion.

Notetakers and Copying Notes
For some students, listening requires all their energy. Intense concentration is needed to follow the sign language interpreter, to lipread the instructor, or to process what is being heard. These students may often be unable to write notes and still maintain attention to the spoken information. It is important for the student with disabilities to have access to notes as a means to learn in addition to access to classroom discussion. Providing accommodations such as a sign language interpreter or FM system will not replace the need for notes in the same class. Student notetakers are often recruited and trained to provide the student who has a disability with notes that reflect what was taught in class. If a student notetaker is not made available, sometimes copies of lecture notes can be made with the agreement of the instructor.

Visual Aids, Visual Reinforcements, and Visual Warning Systems
The use of visual information is a benefit to students with auditory processing difficulties. Visual examples, icons, diagrams, charts, and illustrations can reinforce information delivered verbally. Since, in most classes, a great deal of information is presented verbally, it is helpful for instructors to make references, images, or information available outside the class that reinforces what was taught verbally. This can be done with printed materials or on a Web page. For students who cannot hear, it is also important that any auditory warning signals for fire, smoke, or other purposes are available in a visual form (using a strobe light). This is especially important for students working in isolated locations, labs, study rooms, or audio video/computer work areas.

Written Assignments, Written Exams, Alternative Lab Work
Most students with speech disabilities can complete required homework as assigned. When an accommodation is arranged, it usually adjusts how the homework is to be done and not "what" is to be done. Sometimes an assignment needs to be created or replaced if the original is not feasible for a student with a specific disability. For example, a student who was expected to make an oral presentation might be allowed to use an interpreter or submit a written assignment; an exam that is normally given orally could be arranged in writing; work that is normally done with headphones or in a lab situation might be done in writing or with technology or interpreter support. Make sure that assignments assess the students' abilities and knowledge, not their hearing and speech. All students should be assessed fairly.

Electronic Mail and Written Communication
Classroom comments and student questions can be done by e-mail or handwritten notes if verbal communication in class is difficult. This is especially useful if anxiety or voice production is a problem. The use of electronic mail allows the student more time and prevents the immediate problem of speaking out loud in public during class.

Communication Assistance, Peer Support, and Extended Time
A third party might be available or useful to provide support. This person might be someone trained to interpret a speech pattern, read a communication board, or help a person make words more clear. Sometimes a disabled student may benefit from a peer or fellow student providing this support, but only with prior agreement and coordination between both students. Never put students on the spot or breech confidentiality by identifying a disabled student in need of support.

Extended time is often needed for communicating orally or in writing with or without the aid of communication devices. Even using an interpreter may require more time due to a lag between the

reception of the original language and the translation to the output language. Extended time in class, for assignments or exams, should be arranged through the disabled students services on campus.

Seating, Pacing, and Alternative Arrangements

Most students who have a hearing impairment will want to sit close enough to lipread the instructors and close to interpreters or notetakers. This is usually, but not always, near the front of the room. In situations with circles or non-traditional seating arrangements, the student may have to sit across from the instructor and have the interpreter or real-time captioner sit in the middle. Students with other learning needs may prefer to sit near a door, away from windows that bring in outside noise, or near the instructor. A student using an assistant may need extra seating for the second person and a student using technical aids may need to sit near power outlets or close to a specific piece of equipment.

Consider also, the pacing of your sessions. Although it might be difficult to change the overall pacing of a course, consider the competition for providing quick answers in class. If possible, allow for quiet pauses, thinking, and slower paced answers within class time. Sometimes just slowing the pace slightly can facilitate the participation of a student with a communication disability. Alternatively, consider providing smaller groups, seminars, and one-to-one opportunities so that the benefits of interaction are not lost for the student who cannot participate in large classes. Following these guidelines will ensure that students with communication difficulties have equal access to information and self-expression.

About DO-IT

DO-IT (Disabilities, Opportunities, Internetworking, and Technology) serves to increase the successful participation of individuals with disabilities in challenging academic programs and careers. Primary funding for DO-IT is provided by the National Science Foundation, the State of Washington, and U.S. Department of Education. For more information, to be placed on the DO-IT mailing list, or to request materials in an alternate format, contact:

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9/5/02

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